

## X-12553\_JP.ST25.txt SEQUENCE LISTING

## <110> Eli Lilly and Company

Beals, John

## <120> ERYTHROPOIETIC COMPOUNDS

<130> X-12553

<140> US 09/856,451

<141> 2001-05-22

<150> PCT/US99/27801

<151> 1999-11-23

<160> 4

<170> PatentIn version 3.0

<210> 1

<211> 168

<212> PRT

<213> synthetic construct

<220>

<221> VARIANT

### X-12553\_JP.ST25.txt

<222> (1)..(1) <223> Xaa at position 1 is absent or Met; <220> <221> VARIANT <222> (2)..(2) <223> Xaa at position 2 is absent or is Ala, Cys, Asp, Glu, Phe, Gly, His Ile, Leu, Met, Asn, Gln, Arg, Ser, Thr, Val, Trp, or Tyr <220> <221> VARIANT (26)..(26)<222> <223> Xaa at position 26 is Asn, Lys or Glu; <220> <221> VARIANT (40)..(40)<222> <223> Xaa at position 40 is Asn, Lys or Glu;

<220>

<221> VARIANT

<222> (78)..(78)

<223> Xaa at position 78 is Arg or Glu;

<220>

# X-12553\_JP.ST25.txt <221> VARIANT (85)..(85) <222> <223> Xaa at position 85 is Asn, Lys or Glu; <220> <221> VARIANT (90)..(90) <222> <223> Xaa at position 90 is Trp, Lys, Pro, or Arg; <220> <221> VARIANT <222> (128)..(128) <223> Xaa at position 128 is Ser, Thr, Lys or Glu; <220> <221> VARIANT <222> (141)..(141) Xaa at position 141 is Arg or Glu; <223> <220> <221> VARIANT (156)..(156) <222> <223> Xaa at position 156 is Lys or Glu; and

<221> VARIANT

<220>

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<222> (168)..(168)

<223> Xaa at position 168 is Arg, absent, or any other amino acid.

<400> 1

Xaa Xaa Ala Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg 1 5 10 15

Tyr Leu Leu Glu Ala Lys Glu Ala Glu Xaa Ile Thr Thr Gly Cys Ala 20 25 30

Glu His Cys Ser Leu Asn Glu Xaa Ile Thr Val Pro Asp Thr Lys Val 35 40 45

Asn Phe Tyr Ala Trp Lys Arg Met Glu Val Gly Gln Gln Ala Val Glu 50 55 60

Val Trp Gln Gly Leu Ala Leu Leu Ser Glu Ala Val Leu Xaa Gly Gln 65 70 75 80

Ala Leu Leu Val Xaa Ser Ser Gln Pro Xaa Glu Pro Leu Gln Leu His 85 90 95

Val Asp Lys Ala Val Ser Gly Leu Arg Ser Leu Thr Thr Leu Leu Arg 100 105 110

Ala Leu Gly Ala Gln Lys Glu Ala Ile Ser Pro Pro Asp Ala Ala Xaa 115 120 125

Ala Ala Pro Leu Arg Thr Ile Thr Ala Asp Thr Phe Xaa Lys Leu Phe 130 135 140

Arg Val Tyr Ser Asn Phe Leu Arg Gly Lys Leu Xaa Leu Tyr Thr Gly
145 150 155 160

Glu Ala Cys Arg Thr Gly Asp Xaa 165

<210> 2

<211> 193

<212> PRT

<213> Homo sapiens

### X-12553\_JP.ST25.txt

<400> 2

Met Gly Val His Glu Cys Pro Ala Trp Leu Trp Leu Leu Leu Ser Leu 1 5 10 15

Leu Ser Leu Pro Leu Gly Leu Pro Val Leu Gly Ala Pro Pro Arg Leu 20 25 30

Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu Leu Glu Ala Lys Glu
35 40 45

Ala Glu Asn Ile Thr Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu 50 55 60

Asn Ile Thr Val Pro Asp Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg
65 70 75 80

Met Glu Val Gly Gln Gln Ala Val Glu Val Trp Gln Gly Leu Ala Leu 85 90 95

Leu Ser Glu Ala Val Leu Arg Gly Gln Ala Leu Leu Val Asn Ser Ser 100 105 110

Gln Pro Trp Glu Pro Leu Gln Leu His Val Asp Lys Ala Val Ser Gly
115 120 125

Leu Arg Ser Leu Thr Thr Leu Leu Arg Ala Leu Gly Ala Gln Lys Glu 130 135 140

Ala Ile Ser Pro Pro Asp Ala Ala Ser Ala Ala Pro Leu Arg Thr Ile 145 150 155 160

Thr Ala Asp Thr Phe Arg Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu 165 170 175

Arg Gly Lys Leu Lys Leu Tyr Thr Gly Glu Ala Cys Arg Thr Gly Asp 180 185 190

Arg

<210> 3

<211> 498

<212> DNA

<213> synthetic construct

#### X-12553 JP.ST25.txt

<220>

<221> CDS

<222> (1)..(495)

<400> 3

gct cca cca cgt ctt att tgt gat tct cgt gtt ctt gaa cgt tac ctg 48

Ala Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu

1 5 10 15

ctg gaa gct aaa gaa gct gaa aac atc acc acc ggt tgc gct gaa cac

Leu Glu Ala Lys Glu Ala Glu Asn Ile Thr Thr Gly Cys Ala Glu His

20 25 30

tgc tcc ctg aac gaa aac atc acc gtt ccg gac acc aaa gtt aac ttc

144

Cys Ser Leu Asn Glu Asn Ile Thr Val Pro Asp Thr Lys Val Asn Phe

35 40 45

tac gct tgg aaa cgt atg gaa gtt ggt cag cag gct gtt gaa gtt tgg

192

Tyr Ala Trp Lys Arg Met Glu Val Gly Gln Gln Ala Val Glu Val Trp

50 55 60

85

cag ggt ctg gct ctg ctg tcc gaa gct gtt ctg cgt ggt cag gct ctg

240

Gln Gly Leu Ala Leu Leu Ser Glu Ala Val Leu Arg Gly Gln Ala Leu

65 70 75 80

ctg gtt aac tcc tcc cag ccg tgg gaa ccg ctg cag ctg cac gtt gac

288

Leu Val Asn Ser Ser Gln Pro Trp Glu Pro Leu Gln Leu His Val Asp

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90

95

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aaa gct gtt tcc ggt ctg cgt tcc ctg acc acc ctg ctg cgt gct ctg
336
Lys Ala Val Ser Gly Leu Arg Ser Leu Thr Thr Leu Leu Arg Ala Leu
100 105 110

ggt gct cag aaa gaa gct atc tcc ccg ccg gac gct gct tcc gct gct 384
Gly Ala Gln Lys Glu Ala Ile Ser Pro Pro Asp Ala Ala Ser Ala Ala

115
120
125

ccg ctg cgt acc atc acc gct gac acc ttc cgt aaa ctg ttc cgt gtt 432
Pro Leu Arg Thr Ile Thr Ala Asp Thr Phe Arg Lys Leu Phe Arg Val

130
135
140

tac tcc aac ttc ctg cgt ggt aaa ctg aaa ctg tac acc ggt gaa gct 480 Tyr Ser Asn Phe Leu Arg Gly Lys Leu Lys Leu Tyr Thr Gly Glu Ala 145

tgc cgt acc ggt gac tga 498 Cys Arg Thr Gly Asp

165

<210> 4

<211> 165

<212> PRT

<213> synthetic construct

<400> 4

Ala Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu Page 7

1	X-125	553_JP.ST25.txt 10	15
Leu Glu Ala Lys	Glu Ala Glu As	sn Ile Thr Thr Gly (	Cys Ala Glu His
20		25	30
Cys Ser Leu Asn 35	Glu Asn Ile Th	hr Val Pro Asp Thr 1	Lys Val Asn Phe
Tyr Ala Trp Lys	Arg Met Glu Va	al Gly Gln Gln Ala V	/al Glu Val Trp
50	55	60	
Gln Gly Leu Ala	Leu Leu Ser Gl	lu Ala Val Leu Arg (	Gly Gln Ala Leu
65		75	80
Leu Val Asn Ser	Ser Gln Pro Tr	rp Glu Pro Leu Gln I	Leu His Val Asp
	85	90	95
Lys Ala Val Ser	Gly Leu Arg Se	er Leu Thr Thr Leu I	Leu Arg Ala Leu
100		105	110
Gly Ala Gln Lys		er Pro Pro Asp Ala A	Ala Ser Ala Ala
115		20	.25
Pro Leu Arg Thr 130	Ile Thr Ala As	sp Thr Phe Arg Lys I 140	eu Phe Arg Val
Tyr Ser Asn Phe	Leu Arg Gly Ly	ys Leu Lys Leu Tyr T	Chr Gly Glu Ala
145	150	155	160

Cys Arg Thr Gly Asp 165